

Curriculum Vitae – 2021 Update

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Professional Preparation:

1980: B.A., Biology, University of California, San Diego, CA
1988: Ph.D., Zoology, Oregon State University, Corvallis, OR
1990-1994: Research Fisheries Biologist (Post-Doc), US Forest Service, Pacific Northwest Research Station, Corvallis, OR

Appointments:

Current:

1991 to present: Research Ecologist, US Forest Service, Pacific Northwest Research Station, Corvallis, OR. Since 2014, GS-15. Since 2009, Aquatic Ecology & Mgmt Team Leader.
1991 to present: Affiliate Faculty, Depts. Integrative Biology, Fisheries and Wildlife, Forest Ecosystems and Society, Oregon State University, Corvallis, OR.
2016 to present, USA regional lead, International Union for the Conservation of Nature, Species Survival Commission, Amphibian Specialist Group.
1997 to present, Associate Editor, *Herpetological Review*, Society for the Study of Amphibians and Reptiles. Since 2007, Lead of Amphibian Disease section.

Selected Past Positions:

2009-2012, National Co-Chair; 1999-2009, Northwest Co-Chair: Partners in Amphibian and Reptile Conservation (PARC).
2003-2005, President; 2000-2002, Vice-President-OR: Soc. Northwestern Vertebrate Biology.
1993-2000: Associate Editor, Northwestern Naturalist, Soc. Northwestern Vertebrate Biology.
1989-1990: Instructor, Dept. Zoology, Oregon State University, Corvallis, OR.
1989: Sabbatical Replacement/Instructor, Dept. Biology, Linfield College, McMinnville, OR.

Selected Publications (Alphabetically by Year):

1. Apodaca, J.J., M. Leppin, S. Barnes, E. Bredeweg, B. Garcia, T. Garcia, L. Guderyahn, D. Hanson, D. Olson, D. Paoletti, A. Rodriguez, J. Romansic, S. Webb, K. Weil, and K. Woodley. 2021 In press. Oregon Priority Amphibian and Reptile Conservation Areas (PARCAs). Partners in Amphibian and Reptile Conservation, Technical Publication XXX. 66 p.
2. Brunner, J.L., D.H. Olson, M.J. Gray, D.L. Miller, A.L.J. Duffus. 2021. Global patterns of ranavirus detections. FACETS 6:912-924. doi:10.1139/facets-2020-0013
3. Cafferata Coe, F., T. Garcia, D. Olson, and J. Woodward. 2021 In press. Wildlife in managed forests: Amphibians. Oregon Forest Research Institute.
4. Koo, M.S., V.T. Vredenburg, J.B. Deck, D.H. Olson, K.L. Ronnenberg, and D.B. Wake. 2021 in press. Tracking, synthesizing and sharing global *Batrachochytrium* data at Amphibian Disease.org. Front. Vet. Sci.
5. North American Bsal Task Force. 2021 In press. Bsal Task Force: 2020 Annual Report. *Batrachochytrium salamandrivorans* (Bsal) Technical Advisory Committee. Salamanderfungus.org

6. North American Bsal Task Force. 2021 In press. North American Bsal Strategic Plan. Version 2.0. *Batrachochytrium salamandivorans* (Bs) Technical Advisory Committee. Salamanderfungus.org
7. North American Bsal Task Force. 2021 In press. North American Bsal Implementation Plan. *Batrachochytrium salamandivorans* (Bs) Technical Advisory Committee. Salamanderfungus.org
8. Olson, D.H. 2021 in press. Book Review: Amphibians of Oregon, Washington and British Columbia, 3rd Edition. Herpetol. Rev. 52(3).
9. Olson, D. H. 2021 In press. Climate change adaptation-management strategies for herpetofauna. Chapter 46, Pages xx-xx in S. C. Walls and K. M. O'Donnell, editors. Strategies for Conservation Success in Herpetology. Society for the Study of Amphibians and Reptiles, University Heights, OH, USA.
10. Olson, D. H. 2021 Provisionally Accepted. A Whale of a Tale. Women's Field Studies Anthology. S. B. Adams and S. Osborn (eds.). Publisher pending.
11. Olson, D. H., A. S. Coble, and J. A. Homack. 2021 In Press. Beyond Best Management Practices. In Dolloff, C. A., and R. J. Danehy, eds. Reflections on Forest Management: Can Fish and Fiber Coexist? American Fisheries Society Symposium 92:xxx-xxx. 47 p.
12. Olson, D.H., K. Haman, M. Gray, R. Harris, T. Thompson, M. Iredale, M. Christman, J. Williams, M.J. Adams, and J. Ballard. Enhanced between-site biosecurity to minimize herpetofaunal disease-causing pathogen transmission. Herpetol. Rev. 52(1):29-39.
13. Olson, D.H. and D. Pilliod. 2021 In press. Philosophy, Authority, and Strategic Pragmatism of Amphibian and Reptile Conservation in the United States of America. Chapter 9, Pages xx-xx in S.C. Walls and K. M. O'Donnell, editors. Strategies for Conservation Success in Herpetology. Society for the Study of Amphibians and Reptiles, University Heights, OH, USA.
14. Olson, D.H., K.L Ronnenberg, C.K. Glidden, K.R. Christiansen, and A.R. Blaustein. 2021. Global patterns of the fungal pathogen *Batrachochytrium dendrobatidis* support conservation urgency. Front. Vet. Sci. 8:685877. doi: 10.3389/fvets.2021.685877
15. Poland, T., Juzwik, J., Rowley, A., Huebner, C.D., Kilgo, J.C., Lopez, V.M., Olson, D.H., Pearson, D.E., Progar, R., Rabaglia, R., Rothlisberger, J., Runyon, J.B., and Sing, S. 2021. Management of landscapes for established invasive species. Chapter 7, pp 133-184 In: Poland, T.M., Patel-Weynand, T, Finch, D.M., Ford Miniat, C., and Lopez, V.M. (eds.) Invasive Species in Forests and Grasslands of the United States: A Comprehensive Science Synthesis for the United States Forest Sector. Springer Verlag, Cham, Switzerland. <https://www.fs.fed.us/research/publications/book/invasiveSpecies/invasiveSpeciesFull.pdf>. <https://doi.org/10.1007/978-3-030-45367-1#DOI>
16. Seybold, S.J., S.J. Frankel, D.H. Olson, R. Flitcroft, B.K. Kerns, J.C. Lee, K.L. Ripley, and A.S. Munson. 2021. Northwest region. Pp 352-377 In: Appendix: Regional Summaries; Poland, T.M., Patel-Weynand, T, Finch, D.M., Ford Miniat, C., and Lopez, V.M. (eds.) Invasive Species in Forests and Grasslands of the United States: A Comprehensive Science Synthesis for the United States Forest Sector. Springer Verlag, Cham, Switzerland. <https://www.fs.fed.us/research/publications/book/invasiveSpecies/invasiveSpeciesFull.pdf>. <https://doi.org/10.1007/978-3-030-45367-1#DOI>
17. Thurman L, Cousins C, Button S, Garcia T, Henderson A, Olson D, and J Piovia-Scott. 2021 In press. Treading water: Conservation of headwater-stream associated amphibians in

- Northwestern North America. Imperiled – The Encyclopedia of Conservation: Freshwater Section. International Union for the Conservation of Nature.
18. Wilson, T.M., L. Thurman, E.A. Beever, P. Singleton, D.H. Olson, D. Williams, and D. Glavich. 2021 In press. Climate change, wildlife and wildlife habitats in the Oregon Coast Range. Chapter 4 in: Halofsky et al. (eds.). Oregon Coast Range climate change assessment. Pacific Northwest Research Station, General Technical Report, PNW-GTR-XXX. US Department of Agriculture, Forest Service, Portland, OR.
 19. Bsal Task Force. 2020. A North American Strategic Plan to Control Invasions of the Lethal Salamander Pathogen *Batrachochytrium salamandrivorans*. Version 1.0.
<https://www.salamanderfungus.org/wp-content/uploads/2020/04/Bsal-Strategic-Plan-2020-Posted-OM-edits.pdf>.
 20. Olson, D., and S. Kantor. 2020. Working together: How science partnerships can help prioritize rare species for conservation. Science Findings 223:1-6. January 2020.
 21. Olson, D.H. and K.L. Ronnenberg. 2020. Global distribution of *Batrachochytrium dendrobatidis* in June 2014. In: Tsing, A., J. Deger, A.K. Saxena, and F. Zhou, eds. Feral Atlas: The More-than-Human Anthropocene. Bd chytrid fungus: Feral quality [left margin, third quality]. Stanford Univ. Press. feralatlas.org; accessed 22 October 2020.
 22. Pilliod, D.S. M.I. Jeffries, R.S. Arkle, and D.H. Olson. 2020. Reptiles under the conservation umbrella of the Greater Sage-grouse J. Wildl. Manag. 84(3):478-491.
 23. Bradley, P.W. M.D. Brawner, T.R. Raffell, J.R. Rohr, D.H. Olson, and A.R. Blaustein. 2019. Shifts in temperature influence how *Batrachochytrium dendrobatidis* infects amphibian larvae. PLoS ONE 14(9):e0222237.
 24. Bsal Task Force. 2019. Bsal Strategic Plan for North America.
<http://www.salamanderfungus.org/>
 25. Bsal Task Force. 2019. Bsal Task Force: 2018 Annual Report.
<http://www.salamanderfungus.org/>
 26. Canessa, S., A. Spitzen-van der Sluijs, T. Stark, P.J. Bishop, M. Bletz, C.J. Briggs, D. Daversa, M.J. Gray, R.A. Griffiths, R.N. Harris, X.A. Harrison, J.T. Hoverman, P. Jervis, E.L. Muths, D.H. Olson, C.L. Richards-Zawacki, J. Robert, G.M. Rosa, B.C. Scheele, B.R. Schmidt, and T.W.J. Garner. 2019. Conservation decisions under pressure: lessons from an exercise in rapid response to wildlife disease. Conservation Science and Practice 2019; e141.
 27. Emel, S.L., D.H. Olson, L.L. Knowles, and A. Storfer. 2019. Comparative landscape genetics of two endemic torrent salamander species, *Rhyacotriton kezeri* and *R. variegatus*: Implications for forest management and species conservation. Conservation Genetics 20:801-815.
 28. Mims, M. C., D. H. Olson, D. S. Pilliod, and J. B. Dunham. 2019. The rarity and climate-sensitivity index: A regional multi-species assessment tool. The Wildlife Professional 13(3):50-51.
 29. Olson, D.H. 2019. A decade of herpetological disease papers: Puzzle pieces of a bigger picture. Herpetological Review 50:37-40.
 30. Olson, D.H., and J.I. Burton. 2019. Climate Associations with Headwater Streamflow in Managed Forests over 16 Years and Projections of Future Dry Headwater Stream Channels. Special Issue: *Managing Forests and Water for People under a Changing Environment*, G. Sun, Editor. Forests 10, 968; <https://doi.org/10.3390/f10110968>; 28 p.

31. Olson, D., R. Harris, M. Mandica, and A. Watts. 2019. The deadly amphibian Bd disease: How science-management partnerships are forestalling amphibian biodiversity losses. *Science Findings* 214:1-5.
32. Adams, M.J., R.N. Harris, E.H.C. Grant, M.J. Gray, M.C. Hopkins, S. A. Iverson, R. Likens, M. Mandica, D.H. Olson, A. Shepack, H. Waddle. 2018. Prepublication communication of research results. *EcoHealth* 15(3):478-481.
33. Blaustein, A.R., J. Urbina, P.W. Snyder, E. Reynolds, T. Dang, J.T. Hoverman, B. Han, D.H. Olson, C. Searle, and N.M. Hambalek. 2018. Effects of emerging infectious diseases on amphibians: A review of experimental studies. *Diversity* 10(85):1-49.
34. Bd Task Force. 2018. *Batrachochytrium salamandivorans* (Bd) Rapid Response Template. <http://www.salamanderfungus.org/>
35. Gray, M.J., M.C. Allender, K.H. Haman, R.N. Harris, and D.H. Olson. 2018. Facilitating early detection and rapid response: An alert system to combat emerging herpetofaunal diseases. *The Wildlife Professional* 12(5):33-35.
36. Hopkins, M.C., Adams, M.J., Super, P.E., Olson, D.H., Hickman, C.R., English, P., Sprague, L., Maska, I.B., Pennaz, A.B., and Ludwig, K.A., 2018, *Batrachochytrium salamandrovans* (Bd) in Appalachia—Using scenario building to proactively prepare for a wildlife disease outbreak caused by an invasive amphibian chytrid fungus: U.S. Geological Survey Report 2018–1150, 31 p.
37. Mims, M. C., D. H. Olson, D. S. Pilliod, and J. B. Dunham. 2018. Functional and geographic components of risk for climate sensitive vertebrates in the Pacific Northwest, USA. *Biological Conservation* 228:183-194.
38. Reeves, G.H., D.H. Olson, S. M. Wondzell, S.A. Miller, J.W. Long, P.A. Bisson, and M.J. Furniss. 2018. The Aquatic Conservation Strategy of the Northwest Forest Plan – A review of the relevant science after 22 years. Chapter 7 in: P.A. Stine and T.A. Spies (eds.). *Synthesis of Science to Inform Land Management within the Northwest Forest Plan Area*. US Forest Service, PNW Gen. Tech. Rept. PNW-GTR-966, Vol. 2: 461-624.
39. Works, A.J. and D.H. Olson. 2018. Diets of two nonnative freshwater turtle species (*Trachemys scripta* and *Pelodiscus sinensis*) in Kawai Nui Marsh, Hawaii. *J. Herpetol.* 52(4):444-452.
40. Gervasi, S.S., P.R. Stephens, J. Hua, C.L. Searle, J. Urbina, D.H. Olson, B.A. Bancroft, V. Weis, J.I. Hammond, R.A. Relyea, and A.R. Blaustein. 2017. Linking ecology and epidemiology to understand predictors of multi-host responses to an emerging pathogen, the amphibian chytrid fungus. *PLoS ONE* 12(1):e0167882.
41. Grant, E.H.C., E. Muths, R.A. Katz, S. Canessa, M.J. Adams, J.R. Ballard, L. Berger, C.J. Briggs, J.T.H. Coleman, M.J. Gray, M.C. Harris, R.N. Harris, B. Hossack, K.P. Huyvaert, J. Kolby, K.R. Lips, R.E. Lovich, H.I. McCallum, J.R. Mendelson III, P. Nanjappa, D.H. Olson, J.G. Powers, K.L.D. Richgels, R.E. Russell, B.R. Schmidt, A. Spitzen-van der Sluijs, M.K. Watry, D.C. Woodhams, C.L. White. 2017. Even with forewarning, challenges remain in developing a proactive response to emerging infectious diseases. *Frontiers Ecol. Environ.* 15: 214-221.
42. Iwanowicz, D.D., W.B. Schill, D.H. Olson, M.J. Adams, C. Densmore, R.S. Coprnman, C. Adams, C. Figiel, Jr., C.W. Anderson, A.R. Blaustein, and T. Chestnut. 2017. Potential concerns with analytical methods used for the detection of *Batrachochytrium salamandivorans* from archived DNA of amphibian swab samples, Oregon, USA. *Herpetological Review* 48: 352-355.

43. Leach, J.A., D.H. Olson, P.D. Anderson, and B.N.I. Eskelson. 2017. Spatial and seasonal variability of forested headwater stream temperatures in western Oregon, USA. *Aquatic Sciences* 79: 291-307.
44. Olson, D.H., and B. Van Horne, editors. 2017. People, forests and change - Lessons from the Pacific Northwest. Washington, DC/Covelo, CA/London: Island Press.
- Book Reviews:
- a. Lin, S-K. 2017. New book received: People, Forests, and Change: Lessons from the Pacific Northwest. *Forests* 8:149.
 - b. Sitzia, T. 2018. Book Review. *Journal for Nature Conservation*. 43:211-212.
 - c. Swanson, M.E. 2018. Documenting a regional forest journey. *Ecology* 99(2):507-509.
45. Penaluna, B.E., D.H. Olson, R.L. Flitcroft, M. Weber, J.R. Bellmore, S.M. Wondzell, J.B. Dunham, S.L. Johnson, and G.H. Reeves. 2017. Aquatic biodiversity in forests: A weak link in ecosystem services resilience. *Biodiversity and Conservation* 26: 3125-3155.
46. Smith, R.K., H. Meredith, and W.J. Sutherland. 2017. Amphibian conservation, Chapter 1 in: Sutherland, W.J., Dicks, L.V., Ockendon, N., and Smith, R.K. *What Works in Conservation* Cambridge, UK: Open Book Publishers: <http://dx.doi.org/10.11647/OBP.0109>. (contributor)
47. Burton, J.I., D.H. Olson, and K.J. Puettmann. 2016. Effects of riparian buffer width on down wood loading in headwater streams after repeated forest thinning. *Forest Ecology and Management* 372:247–257.
48. Xie, G.Y., D.H. Olson, and A.R. Blaustein. 2016. Projecting the global distribution of the emerging amphibian fungal pathogen, *Batrachochytrium dendrobatidis*, based on IPCC climate futures. *PLoS ONE* 11(8):e0160746.
49. Bradley, P.W., S.S. Gervasi, J. Hua, R.D. Cothran, R.A. Relyea, D.H. Olson, and A.R. Blaustein. 2015. Differences in sensitivity to the fungal pathogen *Batrachochytrium dendrobatidis* among populations of amphibians. *Conservation Biology* 29:1347-1356.
50. Grant, E.H.C., E. Muths, R.A. Katz, S. Canessa, M.J. Adams, J.R. Ballard, L. Berger, C.J. Briggs, J. Coleman, M.J. Gray, M.C. Harris, R.N. Harris, B. Hossack, K.P. Huyvaert, J.E. Kolby, K.R. Lips, R.E. Lovich, H.I. McCallum, J.R. Mendelson, III, P. Nanjappa, D.H. Olson, J.G. Powers, K.L.D. Richgels, R.E. Russell, B.R. Schmidt, A. Spitzen-van der Sluijs, M.K. Watry, D.C. Woodhams, and C.L. White, C.L. 2015. Salamander chytrid fungus (*Batrachochytrium salamandrivorans*) in the United States—Developing research, monitoring, and management strategies. U.S. Geological Survey Open-File Report 2015-1233 <http://dx.doi.org/10.3133/ofr20151233>.
51. Gray, M.J., J.P. Lewis, P. Nanjappa, B. Klocke, F. Pasman, A. Martel, C. Stephen, G. Parra Olea, S.A. Smith, A. Sacerdote-Velat, M. Christman, J. Williams, and D.H. Olson. 2015. *Batrachochytrium salamandrivorans*: the North American response and a call for action. *PLoS Pathogens* 11(12):e1005251.
52. Olson, D.H. 2015. The science of 50-foot riparian buffers in headwaters. *Western Forester* 60(5): 10–11. Olson, D.H. and J.I. Burton. 2014. Near-term effects of repeated thinning with riparian buffers on headwater streams vertebrates and habitats in Oregon, USA. *Forests* 5:2703-2729.
53. Barela, K. and D.H. Olson. 2014. Mapping the Western Pond (*Actinemys marmorata*) and Painted Turtle (*Chrysemys picta*) in northwestern North America. *Northwestern Naturalist* 95(1):1-12.

54. Chestnut, T., C. Anderson, R. Popa, A.R. Blaustein, M. Voytek, D.H. Olson, and J. Kirshtein. 2014. Heterogeneous occupancy and density estimates of the pathogenic fungus *Batrachochytrium dendrobatis* in waters of North America. PLoS ONE 9(9):e106790.
55. Foster, A.D., D.H. Olson, L.L.C. Jones. 2014. A review of the biology and conservation of the Cope's Giant Salamander, *Dicamptodon copei* Nussbaum, 1970 (Amphibia: Caudata: Dicamptodontidae) in the Pacific Northwestern region of the USA. Life: the Excitement of Biology 2(4): 210-246.
56. Olson, D.H. 2014. Scott Bar Salamander, *Plethodon asupak* Mead, Clayton, Nauman, Olson and Pfrender, 2005: Scott Bar Salamander. P. 238 In: Green, D.M., L. Weir, G.S. Casper, and M.J. Lannoo. North American Amphibians: Distribution and Diversity. Univ. Calif. Press, Los Angeles. 352 p.
57. Olson, D.H. and J.I. Burton. 2014. Near-term effects of repeated thinning with riparian buffers on headwater stream vertebrates and habitats in Oregon, USA. Forests 5: 2703-2729.
58. Olson, D.H., and T. Chestnut. 2014. Trouble in the aquatic world - how wildlife professionals are battling amphibian declines. The Wildlife Professional 8(4): 28-31.
59. Olson, D.H., and C. Crisafulli. 2014. Conservation Assessment for the Van Dyke's Salamander, *Plethodon vandykei*. USDA Forest Service, Region 6, and Oregon BLM, Special Status Species Program. (I have coauthored 8 additional Conserv. Assessments).
60. Ruzicka, K.J., Jr., K.J. Puettmann, and D.H. Olson. 2014. Management of riparian buffers: upslope thinning with downslope impacts. Forest Science 60(5): 881-892.
61. Olson, D.H., and M.R. Kluber. 2014. Plethodontid salamander distributions in managed forest headwaters in western Oregon. Herpetological Conservation and Biology 9(1): 76-96.
62. Burton, J.I., A. Ares, K.J. Puettmann, D.H. Olson. 2013. Management trade-off between above-ground carbon storage and understory plant species richness in temperate forests. Ecol. Applications 23:1297-1310.
63. Gervasi, S.S., C. Gondhalekar, D.H. Olson, and A.R. Blaustein. 2013. Host identity matters in the amphibian-*Batrachochytrium dendrobatis* system: fine-scale patterns of variation in responses to a multi-host pathogen. PLoS ONE 8(1): e54490. Olson, D.H., D.M. Aanensen, K.L. Ronnenberg, C.I. Powell, S.F. Walker, J. Bielby, T.W.J. Garner, G. Weaver, the Bd Mapping Group, and M.C. Fisher. 2013. Mapping the global emergence of *Batrachochytrium dendrobatis*, the amphibian chytrid fungus. PLOS ONE 8(2): e56802.
64. Bancroft, B.A., B.A. Han, C. Searle, L. M. Biga, D.H. Olson, L.B. Kats, J.J. Lawler, and A. R. Blaustein. 2011. Species-level correlates of susceptibility to the pathogenic amphibian fungus *Batrachochytrium dendrobatis* in the United States. Biodiversity Conservation 20:1911-1920.
65. Kiester, A.R. and D.H. Olson. 2011. Prime time for turtles. Herpetol. Review 42(2): 198-204.
66. Paoletti, D. J. D.H. Olson, and A.R. Blaustein. 2011. Responses of foothill yellow-legged frog (*Rana boylii*) larvae to an introduced predator. Copeia: 161-168.
67. Searle, C.L., S.S. Gervasi, J. Hua, J.I. Hammond, R.A. Relyea, D.H. Olson, and A.R. Blaustein. 2011. Differential host susceptibility to *Batrachochytrium dendrobatis*, an emerging amphibian pathogen. Conservation Biology 25(5): 965-974.
68. Shoo, L. P., D.H. Olson, S.K. McMenamin, K.A. Murray, M. Van Sluys, M.A. Donnelly, D. Stratford, J. Terhivuo, A. Merino-Viteri, S.M. Herbert, P.J. Bishop, P.S. Corn, L. Dovey, R.A. Griffiths, K. Lowe, M. Mahony, H. McCallum, J.D. Shuker, C. Simpkins, L.F. Skerratt, S.E. Williams, J-M. Hero. 2011. Engineering a future for amphibians under climate change. J. Applied Ecology: 48: 487-492.

69. Kluber, M.R., D.H. Olson, and K.J. Puettmann. 2009. Downed wood microclimates and their potential impact on plethodontid salamander habitat in the Oregon Coast Range. Northwest Science 83:25-34.
70. Olson, D.H. (coord. Ed.). 2009. Herpetological conservation in northwestern North America. Northwestern Naturalist 90: 61-96.
71. Olson, D.H., D. Clayton, R.S. Nauman, and H.H. Welsh, Jr. (eds.). 2009. Conservation of the Siskiyou Mountains Salamander (*Plethodon stormi*). Northwest Fauna 6:1-73.
72. Olson, D.H. and K.M. Burnett. 2009. Design and management of linkage areas across headwater drainages to conserve biodiversity in forest ecosystems. Forest Ecology and Management 259S:S117-S126.
73. Kluber, M.R., D.H. Olson, and K.J. Puettmann. 2008. Amphibian distributions in riparian and upslope areas and their habitat associations on managed forest landscapes of the Oregon Coast Range. Forest Ecology and Management 256:529-535.Olson, D.H. and C. Rugger. 2007. Preliminary study of the effects of headwater riparian reserves with upslope thinning on stream habitats and amphibians in western Oregon. Forest Science 53(2):331-342.
74. Olson, D.H., P.D. Anderson, C.A. Frissell, H.H. Welsh Jr., and D.F. Bradford. 2007. Biodiversity management approaches for stream riparian areas: Perspectives for Pacific Northwest headwater forests, microclimate and amphibians. Forest Ecology and Management 246(1):81-107.
75. Olson, D.H., K.J. Van Norman, and R.D. Huff. 2007. The utility of strategic surveys for rare and little known species under the US federal Northwest Forest Plan. Gen. Tech. Rep. PNW-GTR-708. Portland, OR: USDA Forest Service, Pacific Northwest Research Station. 48 p.
76. Olson, D. H. and G. Weaver. 2007. Vertebrate assemblages associated with headwater hydrology in western Oregon managed forests. Forest Science 53(2):343-355.
77. Rundio, D.E. and D.H. Olson. 2007. Influence of headwater site conditions and riparian buffers on terrestrial salamander response to forest thinning. Forest Science 53(2):320-330.
78. Rykken, J.J., A.R. Moldenke, and D.H. Olson. 2007. Headwater riparian forest-floor invertebrate communities associated with alternative forest management practices. Ecol. Appl. 17(4):1168-1183.
79. Suzuki, N. and D.H. Olson. 2007. Options for biodiversity conservation in managed forest landscapes of multiple ownerships in Oregon and Washington, USA. Biodiversity and Conservation 16:3895-3917.
80. Olson, D.H. (ed.) 2006. Biodiversity. Northwestern Naturalist 87(1):1-85.
81. Jones, L.L.C., W.P Leonard, and D.H. Olson (eds.). 2005. *Amphibians of the Pacific Northwest*. Seattle Audubon Society. 227 p.
82. Mead, L.S., D.R. Clayton, R.S. Nauman, D.H. Olson, and M.E. Pfrender. 2005. Newly discovered populations of salamanders from Siskiyou County California represent a species distinct from *Plethodon stormi*. Herpetologica 61:158-177.
83. Rundio, David E. and Deanna H. Olson. 2003. Antipredator defenses of larval Pacific giant salamanders (*Dicamptodon tenebrosus*) against cutthroat trout (*Oncorhynchus clarki*). Copeia 2003(2):392-397.
84. Sheridan, C.D. and D.H. Olson. 2003. Amphibian assemblages in zero-order basins in the Oregon Coast Range. Canadian Journal of Forest Research 33: 1452-1477.
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Selected Invited Presentations

1. Olson, D.H. 2022. Conservation of Endemic Old-Growth Forest-Associated Amphibians in the US Northwest. Invited speaker, Symposium: Biogeography and Diversification of Western Amphibians and Reptiles; Joint Meeting of Ichthyologists and Herpetologists, Spokane, WA. July.
2. Olson, D. H., and J.I. Burton. 2021. Shrinking Headwaters with Climate Change Affect Salamander Habitat in Western Oregon. Invited speaker, Symposium: Climate Change in the USDA Forest Service – Using a Scorecard Approach to Vulnerabilities, Adaptation, and Watersheds and collaborating with USDA Climate Hubs Part 1. TWS2021 Virtual. November
3. Olson, D.H. 2021. Biosecurity priorities to forestall amphibian chytrid transmission. Invasive Species Week. SCIENCEx Webinar series. Becky Gravenmeier, organizer. Feb. 2021.

4. Olson, D.H. 2021 Stream-riparian forest restoration: Beyond Best Management Practices for Sensitive wildlife. Invited Plenary presentation, Oregon State University, Association of Fish and Wildlife graduate students, May 14. 40 participants.
5. Olson, D.H., K.L. Ronnenberg, K.R. Christiansen, C.K. Glidden, and A.R. Blaustein. 2021. Global Bd Mapping Project: 2021 Update. Joint Annual Meeting Northwest PARC and Assoc. Prof. Biologists, virtual, lightning talk. May 7-8, end of Amphibian Week. 50 participants.
6. Olson, D.H. 2019, 2020, 2021. Strategic science for herpetological conservation. Integrative Biology 599: Science and Policy, graduate seminar lecture and discussion, Department of Integrative Biology, Oregon State University, Corvallis, OR. The Honorable Jane Lubchenco, instructor. February. (~20 participants each year).
7. Olson, D.H. 2019. 25 Years of the Riparian Buffer Study. Northwest Regional Meeting of the Society for Freshwater Sciences. Newport, OR, 6 November 2019. (~50 participants)
8. Olson, D.H. 2019. The secret zone: Interface of aquatic and terrestrial forest ecosystems. Workshop: Landscape Ecology and NEPA Planning – Building Credible, Science-based Rational for “Why Here, Why Now”. Oregon State University, 5 November 2019. (~200 participants, and online)
9. Olson, D.H. 2019. Climate-smart forest management for fish and wildlife. Annual Regional NCASI Meeting, Vancouver, WA. 25 September 2019. (~100 participants)
10. Olson, D.H. 2019. Stream-riparian forest restoration: Beyond BMPs. Symposium: Forest/Watershed Restoration: Policy, Principles, and Practice, Washington Chapter of the Society of American Foresters, Port Angeles, WA. April. ~100 participants.
11. Olson, D.H. 2019. Amphibian pathogen web portals. International symposium, Mitigating single pathogen and co-infections that threaten amphibian biodiversity. Zoological Society of London, UK. April. ~100 participants.
12. Olson, D.H. 2019. Strategic Learning: The Science of Climate Change Adaptation Management for Herpetofauna
 1. Plenary Talk, Annual Meeting of the California/Nevada Amphibian Task Force, Humboldt State Univ., Arcata, CA. January. [talk cancelled due to federal government shutdown]
 2. Science Seminar, Department of Biology, Washington State University, Vancouver, WA. Jonah Piovia-Scott, host. April. ~25 participants.
13. Olson, D.H., A. Ares, and K. Puettmann. 2019. Stream-buffer Effects on Aquatic Vertebrates in Forested Headwaters: 5-years after a 2nd Density Management Harvest (the Plot Thickens).
 - 1) Symposium: Responses of Headwater Streams to Forest Management in the Pacific Northwest. Weyerhaeuser Corp., LaSells Stewart Center, Oregon State University, Corvallis, OR. [invited, Puettmann presented due to federal government shutdown] ~100 participants.
 - 2) Joint meetings of the Society for Northwestern Vertebrate Biology, Washington Chapter of the Wildlife Society, and Northwest Partners in Amphibian and Reptile Conservation, Grand Mound, WA. February. [offered] ~70 participants.
14. Olson, D. 2018. Research overview, FY18. Forest Service Region 6 Wildlife Biologist Coordination Meeting. Portland, OR. 100 participants. 2/13/2018.

15. Olson, D. 2018. Western pond turtle monitoring in Oregon. Forest Service Region 6 Wildlife Biologist Coordination Meeting. Portland, OR. 100 participants. 2/13/2018.
16. Olson, D.H. 2018. How to identify your skills and the process of preparing for post-PhD jobs. Guest lecture, Graduate student seminar “Next-Gen PhD”: navigating the transition from PhD to non-academic careers. Katherine Dziedzic, lead, Oregon State University, Department of Integrative Biology, Cordley Hall, Corvallis, OR. 10 participants.
17. Olson, D.H. 2018. US Forest Service Research & Development Overview: Indonesia Delegation Perspectives. Presentation to Indonesia forestry delegation. Question and Answer session. Corvallis, Forestry Sciences Laboratory, Oregon. 6 March 2018. 15 participants.
18. Olson, D.H. 2018. Student mentoring session: Beers and careers. Oral presentation and panel discussion. Society for the Study of Amphibians and Reptiles, Joint Meetings of Ichthyologists and Herpetologists, Rochester, NY: July 13, 2018. Nick Farallo, host. 100 participants.
19. Olson, D.H. 2018. Riparian Buffer Study Component: Density Management Study of Western Oregon. Field tour presentations, Green Peak study site, Bureau of Land Management, OR.
 - a) Silvicultural Practices course, College of Forestry, Oregon State University, Corvallis, OR. Matt Powers, course instructor. Other tour speaker was Hugh Snook (Salem BLM).
 - b) Silviculture Instructors Tour, Society of American Foresters. John Bailey, organizer. Other tour speakers presenting study included Hugh Snook (Salem BLM), Klaus Puettmann (OSU). October.
20. Olson, D.H. 2018. Effects of riparian buffers and climate change on headwater stream flow: Shrinking heads in western Oregon. Symposium: Evaluating the effects of contemporary forest practices on water quantity and water quality. Soc.American Foresters, Portland, OR.
21. Olson, D.H. 2018. Amphibian emerging infectious diseases: What's on the radar? 2018 Herp Symposium: Issues in Reptile and Amphibian Conservation and Culture, Session: Reptile and Amphibian Diseases. Pet Industry Joint Advisory Council, Riverdale, Maryland.
22. Olson, D.H. 2018. Climate niches and herpetofaunal risk. Ecology, Evolution, and Conservation Biology Seminar Series, Fall 2018. Learning Innovation Center, Oregon State University, Corvallis, OR. October. Taal Levi, Matt Betts, hosts.
23. Olson, D.H. 2018. Your changing research portfolio. Early Career Scientist Cadre Workshop, Northern Research Station and Forest Products Laboratory, Madison, WI.
24. Olson, D.H., M. Mims, C. Harjoe, G.Y. Xie, A.R. Blaustein, D. Pilliod, J. Dunham. 2018. Climate Niches and High-latitude Herpetofauna Risk: Multi-taxa Climate Sensitivity Modeling.
 - a)Symposium: Effects of Climate Change on Northern Populations of Reptiles and Amphibians (J. Litzgow, Canada, coordinator). Sponsored by the Canadian Herpetological Society, at: Joint Meetings of Ichthyologists and Herpetologists, Rochester, NY: July 13, 2018. 100 participants.
 - b)Symposium: Strategies for Success in Amphibian and Reptile Conservation (S. Walls and K. O'Donnell, USGS, coordinators). The Wildlife Society, Cleveland, OH. October.
25. Olson, D.H., M. Mims, D. Pilliod, and J. Dunham. 2018. Ectothermoclines: Reptile climate sensitivity from a rarity- and traits-based analysis examining intrinsic risk to climate change. 2018 Joint Annual Meeting of the Society for Northwestern Vertebrate Biology, Northwest

- Partners in Amphibian and Reptile Conservation and the Oregon and Washington Chapters of The Wildlife Society, Portland, OR. 100 participants. Northwestern Naturalist 99(2):163.
26. Olson, D.H. and B. Van Horne. 2018. Climate impacts on rural and urban forestry. Roundtable Workshop, King County Department of Natural Resources and Parks, Green Tools Program, Sustainable Cities Roundtable, Bullitt Foundation. Snoqualmie, WA. July 17, 2018. 60 participants.
 27. Pilliod, D. and D. Olson. 2018. Conservation and research priorities of reptiles in the greater northwest. 2018 Joint Annual Meeting of the Society for Northwestern Vertebrate Biology, Northwest Partners in Amphibian and Reptile Conservation and the Oregon and Washington Chapters of The Wildlife Society, Portland, OR. 100 participants. Northwestern Naturalist 99(2):166-1677.
 28. Pilliod, D.S. D. Olson, and M. Jeffries. 2018. Conservation of lizards and snakes under the umbrella of single-species management. 2018 Joint Annual Meeting of the Society for Northwestern Vertebrate Biology, Northwest Partners in Amphibian and Reptile Conservation and the Oregon and Washington Chapters of The Wildlife Society, Portland, OR. 100 participants. Northwestern Naturalist 99(2):167

Synergistic Activities

1. Novel amphibian databases and data-sharing web portals (co-lead):
 - a. Amphibiandisease.org: 2016 to present, Amphibian Chytrid data management system, with Michelle Koo, AmphibiaWeb, UC Berkeley, CA. Global *Batrachochytrium salamandrivorans* and Bd data repository, and project mapping.
 - b. GRRS: https://brunnerlab.shinyapps.io/GRRS_Interactive/ : 2015 to present, Global Ranavirus Reporting System, developed by EcoHealth Alliance, New York and Global Ranavirus Consortium. With: Matt Gray, Univ. Tennessee, Knoxville; Amanda Duffus, Gordon College, GA; Jesse Brunner, Washington State Univ., Pullman.
 - c. Bd-Maps.net: 2007 to 2014, Global Bd Mapping Project, with Mat Fisher and David Aanensen, Imperial College, London, UK. Global *Batrachochytrium dendrobatidis* site records. Web portal import and export functions were failing in 2014, it is now transitioning to amphibiandisease.org
 - d. Relocation, Reintroduction, Translocation, and Headstarting (RRTH) spreadsheet of projects: <http://parcplace.org/news-a-events/242-rrth.html>. 2011. Occasional updates provided. Globally accessible; Future: end-date not anticipated at this time.
 - e. Known site compilations: all Oregon fish, amphibians, reptiles (Mims et al. 2018); western squamate reptile sites (Pilliod et al. in prep.); western pond turtle and painted turtle sites OR, WA, CA (Barela and Olson 2013); 1179 site records of five endemic salamander species classified under the federal Survey and Manage provision in the US Northwest (1989).
2. Survey protocols
 - a. Terrestrial salamanders (Olson, D.H. (ed.) 1999. Survey protocols for amphibians under the Survey and Manage provision of the Northwest Forest Plan. Version 3.0. Interagency publication of the Regional Ecosystem Office, Portland, OR. Bureau of Land Management Publication BLM/OR/WA/PT-00/033+1792; U.S. Government Printing Office: 2000--589-124/04022 Region No. 10. 310 p. Available at: <http://www.blm.gov/or/plans/surveyandmanage/>
 - b. Lentic breeding amphibians (Olson et al. 1996 (above); translated into Chinese)

Selected Honors, Awards, and Recognitions

1. 2021: Journal recognition: Top 10% most cited PLOS ONE papers published in 2017. Also, this article is in the top 25% of all research outputs scored by Altmetric:
https://www.altmetric.com/details/15708530?utm_medium=email&utm_source=internal&utm_campaign=altmetric; accessed 29 July 2021.
Gervasi, S.S., P.R. Stephens, J. Hua, C.L. Searle, J. Urbina, D.H. Olson, B.A. Bancroft, V. Weis, J.I. Hammond, and R.A. Relyea. 2017. Linking ecology and epidemiology to understand predictors of multi-host responses to an emerging pathogen, the amphibian chytrid fungus. PLoS ONE 12(1):e0167882
1. 2018: Certificate of Appreciation, For co-organizing the Early Career Scientist Workshop in October, 2017 and long-term commitment and creative approach to improving PNW's mentoring of early career scientists. Paul D. Anderson, Acting Station Director, PNW Research Station.
2. 2018: Certificate of Appreciation: For your service to the US Forest Service, Research & Development, Institutional Animal Care and Use Committee. Your dedication to animal welfare is commendable. Carl Lucero, Institutional Official, US Forest Service, Washington, D.C.
3. 2017: Journal recognition: D.H. Olson et al. 2017. Top 1% Most-Cited Article in PLoS ONE. Public Library of Science, 29 June 2017: "Congratulations! Your article is among the top 1% most cited *PLOS ONE* articles. Below are counts for views and citations as of June 2017 for one of the articles you've published with *PLOS ONE*." Article: Olson, Aanensen et al. 2013. Mapping the Global Emergence of *Batrachochytrium dendrobatidis*, the Amphibian Chytrid Fungus. 26,926 views; 116 citations. [March 2019: >33,000 views; 295 citations]
4. 2017: Excellence in Science Delivery, Clock: "For her role as editor of People, Forests, and Change: Lessons from the Pacific Northwest, an engaging, important new book about moist coniferous forests that is of keen interest to forest managers, scientists, policymakers, and educators in our region." Paul D. Anderson, Station Director, PNW Research Station.
5. 2015: Certificate of Merit, \$1,160 performance bonus award: for your outstanding excellence in science leadership and employee mentoring in fiscal year 2015. R. Mangold, Station Director, PNW Research Station.
6. 2014: US Forest Service Research & Development Deputy Chief's Award for Science Delivery.
7. 2014: Named in "The 45 most influential female ecologists alive today" according to Twitter list: <http://www.southernfriedscience.com/?p=16677>
8. 2012: Alison Haskell Award for Excellence in Herpetological Conservation, Partners in Amphibian and Reptile Conservation.
9. 2011: Excellence in Science Award, Society for Northwestern Vertebrate Biology.
10. 2010 to present: Who's Who in America (Marquis).
11. 2010: PNW Station Director's Award for Excellence: Distinguished Science Award: "For sustained excellence in the fundamental study of amphibian ecology and the effective delivery of that knowledge to address practical management and policy issues."
12. 2010: Top 10 Most Cited Papers in Forest Ecology and Management (Olson et al. 2007), Elsevier publishers, free lunch in Seoul, South Korea.

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